

## Patent Assignment Abstract of Title

**Total Assignments: 1**

**Application #:** 09545868 **Filing Dt:** 04/07/2000

**Patent #:** 6265373 **Issue Dt:** 07/24/2001

**PCT #:** NONE

**Publication #:** NONE

**Pub Dt:**

**Inventors:** Maria Jose Bermejo Oses, Miquel Mundo Blanch, Nuria Siscart Laguna, Pilar Castan Barberan, Joseph Vilaret Ferrer

**Title:** Composition comprising a mixture of alkoxyated mono-, di- and triglycerides and glycerine

**Assignment: 1**

**Reel/Frame:** 011022/0988

**Received:**  
08/29/2000

**Recorded:**  
08/03/2000

**Mailed:**  
10/16/2000

**Pages:** 3

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

**Assignors:** OSSES, MARIA JOSE BERMEJO

**Exec Dt:** 05/11/2000

BLANCH, MIQUEL MUNDO

**Exec Dt:** 05/11/2000

LAGUNA, NURIA SISCART

**Exec Dt:** 05/11/2000

BARBERAN, PILAR CASTAN

**Exec Dt:** 05/11/2000

FERRER, JOSEP VILARET

**Exec Dt:** 05/11/2000

**Assignee:** KAO CORPORATION S.A.

E-08210 BARBERA DE VALLES, SPAIN

**Correspondent:** NATH & ASSOCIATES

GARY M. NATH

1030 15TH STREET, N.W. - 6TH FLOOR

WASHINGTON, D.C. 20005

Search Results as of: 1/28/2003 9:07:03 A.M.

10073941

HARDES

Access DB#

85334

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Knobe, Marion Examiner #: \_\_\_\_\_ Date: 1/28/03  
 Art Unit: 1764 Phone Number 30 Serial Number: 09/545868  
 Mail Box and Bldg/Room Location: 8D19 Results Format Preferred (circle): PAPER DISK E-MAIL  
CP3 10 B02

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms; acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*litigation search on US 6,265,373*  
*no litigation found*

## STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>R. Fuller</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit <input checked="" type="checkbox"/>
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>1/28/03</u>	Litigation <u>1</u>	Lexis/Nexis <input checked="" type="checkbox"/>
Searcher Prep & Review Time: <u>20</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>20</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>20</u>	Other _____	Other (specify) _____

*Sepia*

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6265373

<=41> Link to Claims Section

July 24, 2001

Composition comprising a mixture of alkoxyated mono-, di-  
and triglycerides and glycerine

REISSUE: February 14, 2002 - Reissue Application filed Ex. Gp.: 1751; Re. S.N.  
10/073,941 (O.G. June 4, 2002)

INVENTOR: Oses, Maria Jose Bermejo - Viladecans, Spain (ES); Blanch, Miguel  
Mundo - Gurb, Spain (ES); Laguna, Nuria Siscart - Barcelona, Spain (ES);  
Barberan, Pilar Castan - Barcelona, Spain (ES); Ferrer, Josep Vilaret - Santa  
Maria Martorelles, Spain (ES)

APPL-NO: 545868 (09)

FILED-DATE: April 7, 2000

GRANTED-DATE: July 24, 2001

PRIORITY: April 13, 1999 - 99 106 233, European Patent Office (EP)

ASSIGNEE-AT-ISSUE: Kao Corporation S.A., Barbera de Valles, Spain (ES), 03

LEGAL-REP: Nath & Associates PLLC; Nath, Gary M.; Meyer, Jerald L.

PUB-TYPE: July 24, 2001 - Utility Patent having no previously published  
pre-grant publication (B1)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 510#506

CL: 510

SEARCH-FLD: 554#149, 554#151, 554#227, 554#169, 554#163, 510#506

SEARCH-FLD: 554#149, 554#151, 554#227, 554#169, 554#163, 510#506

IPC-MAIN-CL: 7C 11D001#825

PRIM-EXMR: Hardee, John

REF-CITED:

<=23> 2678935, May, 1954, Sundberg et al., United States (US), 2604106  
<=24> 3435024, March, 1969, Nobile et al., United States (US), 260210  
<=25> 4115415, September, 1978, Yoshihara et al., United States (US), 260410  
<=26> 4600539, July, 1986, Hoppe et al., United States (US), 2604107  
<=27> 4681900, July, 1987, Iwasaki, United States (US), 514786  
<=28> 4861613, August, 1989, White et al., United States (US), 426611  
<=29> 4983329, January, 1991, Cooper, United States (US), 2604107  
<=30> 5175323, December, 1992, Cooper, United States (US), 554164  
<=31> 5399728, March, 1995, Cooper, United States (US), 554149  
<=32> 5610130, March, 1997, Thomas et al., United States (US), 510383  
<=33> 5665689, September, 1997, Durbut, United States (US), 510365  
<=34> 5861367, January, 1999, Blanvalet et al., United States (US), 510365  
579887, January, 1994, European Patent Office (EP)  
586323, March, 1994, European Patent Office (EP)  
1045021, October, 2000, European Patent Office (EP)  
9523204, August, 1995, World Intellectual Property Organization (WO)  
9816605, April, 1998, World Intellectual Property Organization (WO)

CORE TERMS: composition, compound, formula, alkyl, moles, viscosity, ratio, coco, glycerine, mixture, cps, fatty acid, detergent, alkoxylation, viscous, oxide, mono, triglyceride, surfactant, stability, sodium, preservative, sulphate, fatty, ethylene oxide, coconut oil, carbon, acid, atoms, palm oil

ENGLISH-ABST:

The present invention relates to a composition comprising a mixture of alkoxyated mono-, di-, and triglycerides and glycerine of the following formula

<=1> Get Chemical Structure

R' representing H or CH<sub>3</sub>, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of from 1 to 4, each of B1, B2, and B3 representing H or

<=I2> Get Chemical Structure

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.; and the weight ratio of triglyceride/diglyceride/monoglyceride being 46 to 90/9

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.; and the weight ratio of triglyceride/diglyceride/monoglyceride being 46 to 90/9 to 35/1 to 15.

The invention also relates to methods for the preparation of this composition, to detergent compositions comprising this composition, and to the use of the composition as surfactant or co-surfactant in detergent compositions.

NO-OF-CLAIMS: 11

EXMPL-CLAIM: 1

NO-OF-FIGURES: 0

NO-DRWNG-PP: 0

SUMMARY:  
DESCRIPTION

The present invention relates to a composition comprising a mixture of alkoxyated mono-, di-, and triglycerides and glycerine, to methods for the preparation of this composition, to detergent compositions comprising this composition, and to the use of the composition as surfactant or co- surfactant in detergent compositions.

Most of the known detergent compositions use anionic, amphoteric and/or non-ionic surfactants to obtain a final product showing satisfactory properties in terms of detergency and foam profile. However, most of these compositions are generally not satisfactory regarding the problem of ecotoxicity and the irritation to the eyes and the skin.

EP 0 586 323 B1 discloses detergent compositions showing improved properties regarding the ecotoxicity and the irritation to the eyes and to the skin. These compositions comprise the mono-, di- and tri-ester compounds represented by the following formula, wherein the weight ratio of mono-, di-, and tri-ester is 46-90/9-30/1-15:

<=3> Get Chemical Structure

wherein R' represents H or CH (3), B represents H or  
<=4> Get Chemical Structure

wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms, and each of m, n, and l may have a value between 0 to 40, the sum of m, n and l being in the range of from 2 to 100.

Your search request has found no CASES.

*in Lepis on this patent*

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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Comprehensive Worldwide Patents database  
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE  
Last update of file: 2003/01/22 (YYYY/MM/DD) 2003-03/UP (basic update)

Search statement 1

?US6265373/PN

\*\* SS 1: Results 1

Search statement 2

?PRT FULL NONSTOPLEGALALL

ER 6

NONSTOPLEGALALL

You have typed an incorrect word : please check your input

Search statement 2

?PRT FULL NONSTOP LEGALALL

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US6265373 B1 20010724 [US6265373]

TI - (B1) Composition comprising a mixture of alkoxylated mono-, di- and triglycerides and glycerine

PA - (B1) KAO CORP SA (US)

IN - (B1) BARBERAN PILAR CASTAN (ES); BLANCH MIGUEL MUNDO (ES); OSES MARIA JOSE BERMEJO (ES); FERRER JOSEP VILARET (ES); LAGUNA NURIA SISCART (ES)

AP - US54586800 20000407 [2000US-0545868]

PR - EP99106233 19990413 [1999EP-0106233]

IC - (B1) C11D-001/825

EC - C11D-001/74

PCL - ORIGINAL (O) : 510506000

DT - Corresponding document

CT - US2678935; US3435024; US4115415; US4600539; US4681900; US4861613; US4983329; US5175323; US5399728; US5610130; US5665689; US5861367; EP0579887 A1; EP0586323 A1; EP1045021; WO9523204; WO9816605

STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

AB - The present invention relates to a composition comprising a mixture of alkoxylated mono-, di-, and triglycerides and glycerine of the following formula (Chemical Structure image '1' not included in text) R' representing H or CH<sub>3</sub>, and each of m, n, and l independently representing a number from 0 to 4, the sum of m, n and l being in the range of from 1 to 4, each of B1, B2, and B3 representing H or (Chemical Structure image '2' not included in text) - wherein R represents an alkyl or alkenyl group having 6 to 22 carbon atoms.; and the weight ratio of triglyceride/diglyceride/monoglyceride being 46 to 90/9 to 35/1 to 15.

The invention also relates to methods for the preparation of this composition, to detergent compositions comprising this composition, and to the use of the composition as surfactant or co-surfactant in detergent compositions.

UP - 2001-31

1/1 LGST - (C) LEGSTAT  
PN - US 6265373 [US6265373]  
AP - US 545868/00 20000407 [2000US-0545868]  
DT - US-P  
ACT - 20000407 US/AE-A  
APPLICATION DATA (PATENT)  
{US 545868/00 20000407 [2000US-0545868]}  
- 20010724 US/BA  
PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)  
- 20020604 US/RF  
REISSUE APPLICATION FILED  
20020214  
UP - 2002-24

1/1 CRXX - (C) CLAIMS/RRX  
PN - 6,265,373 A 20010724 [US6265373]  
PA - Kao Corp S A ES  
ACT - 20020214 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20020604  
REISSUE REQUEST NUMBER: 10/073941  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1751

Reissue Patent Number:

1/1 PAST - (C) Thomson Derwent  
AN - 200223-001858  
PN - 6265373 A [US6265373]  
OG - 2002-06-04  
ACT - REISSUE APPLICATION FILED

Search statement 2

?



PLUSPAT - Time in minutes : 1,61  
The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	3.75 USD
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	Estimated cost :	1.25 USD
Cost estimated for the last database search :		5.00 USD
Estimated total session cost :		6.32 USD

LGST - Time in minutes : 0,35  
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standard price list

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CRXX - Time in minutes : 0,26  
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	Estimated cost :	0.45 USD
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standard price list

	Estimated cost :	0.71 USD
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	Estimated cost :	5.92 USD
Cost estimated for the last database search :		6.63 USD
Estimated total session cost :		19.73 USD

LITA - Time in minutes : 0,06  
The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.12 USD
Cost estimated for the last database search :		0.12 USD
Estimated total session cost :		19.85 USD

*Litigation alert  
searched -  
nothing found*

Selected file: INPADOC

You are now connected to INPADOC  
Covers 1968/1973 thru weekly updates (2003-04)  
For information on content, (...)INFO INPD.

Search statement 1

?FAM US6265373/PN

1 Patent Groups  
\*\* SS 1: Results 2

Search statement 2

?FAMSTATE NONSTOP

1/2 INPADOC - (C) INPADOC  
 PN - EP 1045021 A1 20001018 [EP1045021]  
 TI - COMPOSITION COMPRISING A MIXTURE OF ALKOXYLATED MONO-, DI- AND  
 TRIGLYCERIDES AND GLYCERINE  
 LA - ENG  
 IN - BERMEJO OSES MARIA JOSE [ES]; MUNDO BLANCH MIQUEL [ES]; SISCART LAGUNA  
 NURIA [ES]; CASTAN BARBERAN PILAR [ES]; VILARET FERRER JOSEP [ES]  
 PA - KAO CORP SA [ES]  
 AP - EP 99106233/99-A 19990413 [1999EP-0106233]  
 PR - EP 99106233/99-A 19990413 [1999EP-0106233]  
 IC - C11D-001/74  
 DS - AT\* BE\* CH\* DE\* DK\* ES\* FR\* GB\* GR\* IT\* LI\* NL\* PT\* SE\*

1/1 LEGALI - (C) LEGSTAT  
 PN - EP 1045021 [EP1045021]  
 AP - EP 99106233/99 19990413 [1999EP-0106233]  
 DT - EP-P  
 ACTE- 19990413 EP/AE-A  
 EP-APPLICATION  
 {EP 99106233/99 19990413 [1999EP-0106233]}  
 - 20001018 EP/AK-A1 [+]  
 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:  
 AT BE CH CY DE DK ES FI FR GB GR IT LI NL  
 - 20001018 EP/AX [+]  
 EXTENSION OF THE EUROPEAN PATENT TO  
 AL;LT;LV;MK;RO;SI  
 - 20001018 EP/A1 [+]  
 PUBLICATION OF APPLICATION WITH SEARCH REPORT  
 - 20010131 EP/17P [+]  
 REQUEST FOR EXAMINATION FILED  
 20001207  
 - 20010704 EP/AKX [+]  
 PAYMENT OF DESIGNATION FEES  
 AT BE DE ES FR GB IT NL  
 - 20010816 EP/RBV [+]  
 DESIGNATED CONTRACTING STATES (CORRECTION):  
 AT BE CH CY DE DK ES FI FR GB GR IT LI NL  
 - 20010822 EP/RBV [+]  
 DESIGNATED CONTRACTING STATES (CORRECTION):  
 AT BE CH DE DK ES FR GB GR IT LI NL PT SE  
 - 20020227 EP/17Q [+]  
 FIRST EXAMINATION REPORT  
 20020110  
 UP - 2002-09

2/2 INPADOC - (C) INPADOC  
 PN - US 6265373 BA 20010724 [US6265373]  
 TI - COMPOSITION COMPRISING A MIXTURE OF ALKOXYLATED MONO-, DI- AND  
 TRIGLYCERIDES AND GLYCERINE  
 IN - OSES MARIA JOSE BERMEJO [ES]; BLANCH MIGUEL MUNDO [ES]; LAGUNA NURIA  
 SISCART [ES]; BARBERAN PILAR CASTAN [ES]; FERRER JOSEP VILARET [ES]  
 PA - KAO CORP SA [US]  
 AP - US 545868/00-A 20000407 [2000US-0545868]  
 PR - EP 99106233/99-A 19990413 [1999EP-0106233]  
 IC - C11D-001/825

1/1 LEGALI - (C) LEGSTAT

PN - US 6265373 [US6265373]

AP - US 545868/00 20000407 [2000US-0545868]

DT - US-P

ACTE- 20000407 US/AE-A

APPLICATION DATA (PATENT)

{US 545868/00 20000407 [2000US-0545868]}

- 20010724 US/BA

PATENT (NO PREVIOUS PRE-GRANT PUBLICATION)

- 20020604 US/RF

REISSUE APPLICATION FILED

20020214

UP - 2002-24

Search statement 2

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